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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/652,897	(08/30/2003	Truman F. Kellie	SAM0019/US	9568	
33072	7590	02/07/2005		EXAMINER		
KAGAN BI			ROYER, WILLIAM J			
SUITE 200, I 221 MAIN S		SLAND BUILDING ORTH	ART UNIT	PAPER NUMBER		
STILLWATE			2852			

DATE MAILED: 02/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)	
		10/652,8	97	KELLIE ET AL.	
	Office Action Summary	Examine	г	Art Unit	
		William J		2852	
Period fo	The MAILING DATE of this communic or Reply	cation appears on th	e cover sheet with t	he correspondence ad	idress
THE - External after - If the - If NC - Failu Any (ORTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNIC asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication of the reply specified above is less than thirty (30) period for reply is specified above, the maximum state to reply within the set or extended period for reply very reply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no endinication. d days, a reply within the stautory period will apply and will, by statute, cause the ap	vent, however, may a reply tutory minimum of thirty (30 vill expire SIX (6) MONTHS plication to become ABAND	be timely filed) days will be considered time from the mailing date of this c ONED (35 U.S.C. § 133).	
Status					
1)	Responsive to communication(s) filed	l on			
2a) <u></u>	This action is FINAL . 2	b)⊠ This action is i	non-final.		
3)⊠	Since this application is in condition for closed in accordance with the practic	,		·	e merits is
Dispositi	on of Claims	·•			
5)⊠ 6)□ 7)□	Claim(s) 1-22 is/are pending in the ap 4a) Of the above claim(s) is/are Claim(s) 1-22 is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	e withdrawn from co			
Applicati	on Papers				
10)⊠	The specification is objected to by the The drawing(s) filed on 30 August 200 Applicant may not request that any object Replacement drawing sheet(s) including the The oath or declaration is objected to	23 is/are: a)☐ acce ion to the drawing(s) the correction is requi	be held in abeyance. red if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 C	FR 1.121(d).
Priority u	ınder 35 U.S.C. § 119				
12)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority of Some * Copies of the certified copies of the certified copies of the certified copies of the certified copies of the attached detailed Office action for the priority of Some * Copies of the pri	ocuments have bee ocuments have bee f the priority docum al Bureau (PCT Ru	en received. en received in Appli ents have been rec le 17.2(a)).	cation No eived in this National	Stage
2) 🔲 Notic 3) 🔯 Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or P r No(s)/Mail Date 12122003; 12132003.		4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:		O-152)

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This application is in condition for allowance except for the following formal matters:

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the cooling element of Claim 17 for cooling at least one of the rollers of the first and second nip area must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

The drawings are objected to because of the following informalities:

Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for

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consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The disclosure is objected to because of the following informalities:

On page 1, line 8, after "relates" insert --- to ---.

On page 2, line 3, change "receptor" to --- photoreceptor ---.

On page 5, line 23, change "first and" to --- prefusing roller, ---.

On page 7, line 17, change "The" to --- The second roller or ---.

On page 7, line 19, after "contact nip" insert --- (nip area) ---.

On page 8, line 20, after "roller" insert --- 12 ---.

On page 8, lines 21 and 22, after "area" insert --- 32 ---.

On page 8, line 24, after "substrate" insert --- 24 ---.

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On page 9, line 17, change "a nip" to --- the nip area ---.

On page 9, line 20, after "nip" insert --- area ---.

On page 10, line 23, change "first fusing station" to --- prefusing roller ---.

On page 12, line 5, after "nip" insert --- area ---.

On page 12, line 22, delete ---, etc. ---.

On page 12, line 27, change "rolls" to --- rollers ---.

On page 13, lines 14 and 17, after "substrate" insert --- 24 ---.

On page 13, lines 21 and 23, after "rollers" insert --- 12, 16 ---.

On page 13, line 29, after "system" insert --- 10 ---.

On page 13, line 30, after "nip" insert --- area ---.

On page 14, line 2, change "first nip" to --- nip area ---.

On page 14, line 5, after "substrate" insert --- 24 ---.

On page 14, line 10, after "nip" insert --- area ---.

On page 14, line 11, after "fixation nip" insert --- (nip area) ---.

On page 15, lines 1 and 2, change "nip" to --- nip area ---.

On page 15, lines 3 and 19, after "substrate" insert --- 24 ---.

On page 15, line 13, delete --- fusing ---.

On page 15, lines 15 and 23, change "fixation" to --- fusing ---.

On page 15, line 23, change "rollers" to --- roller ---.

On page 15, line 26, change "a nip" to --- the nip area ---.

On page 16, line 9, change "fixation" to --- fusing ---.

On page 16, line 12, after "nip" insert --- area ---.

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On page 16, lines 21 and 22, change "nips" to --- nip areas ---.

On page 17, line 10, change "24" to --- 203 ---.

On page 17, lines 11 and 14, after each occurrence of "substrate" insert -- 203 --.

On page 17, line 15, after "guides" insert --- 201 ---.

On page 18, lines 24 and 26, change "fixation" to --- fusing ---.

On page 22, line 9, change "fixation" to --- fusing ---.

Appropriate correction is required.

Claim Objections

Claims 9 and 17 are objected to because of the following informalities:

Claim 9, line 2, change "a layer" to --- an outer layer --- in order to provide proper antecedent basis for the "outer layer" referred to in Claim 10 which is dependent upon Claim 9.

Claim 17, line 2, change "areas.." to --- areas. ---.

Appropriate correction is required.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Allowable Subject Matter

Claims 1-22 are allowable over the prior art of record because the prior art of record fails to teach or suggest a fusing apparatus or a method of fixing images made from a liquid toner onto a substrate with a fusing apparatus where the fusing apparatus includes: a prefusing roller, a backup roller positioned to create a first nip area between the prefusing roller and the backup roller, and a fusing roller positioned to create a second nip area between the fusing roller and the backup roller, wherein at least one of the prefusing roller and the backup roller is heated to a temperature that provides a prefusing temperature within the first nip area, and wherein at least one of the fusing roller and the backup roller is heated a temperature that provides a fusing temperature in the second nip area that is different than the prefusing temperature of the first nip area.

Relevant Prior Art

The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kurotori et al disclose a wet-type image fixing unit including first and second image-fixing sections for use with copy paper and transparencies.

Farnand et al disclose a method and apparatus for preheating and pressurefixing a toner image.

Moser discloses a droop compensated fuser having a preheater structure.

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Pang et al disclose an image fusing unit for a liquid electrophotographic printer that includes a drying portion and a fusing portion.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William J. Royer whose telephone number is (571) 272-2140. The examiner can normally be reached on Monday-Thursday and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur T. Grimley can be reached on (571) 272-2136. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William J. Royer Primary Examiner

William J. Oloyer

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wjr February 4, 2005